

Exhibit D

Exhibit D – U.S. Patent No. 9,622,227

Toyota makes, uses, tests, offers for sale, sells, and/or imports vehicles that comply, operate in accordance, and/or are configured in accordance with 3GPP Series of one or more of 3GPP releases 10-16. Such vehicles are collectively referred to as the “Accused Products.” The Accused Products include Toyota and Lexus-branded vehicles that support LTE and that were made in, used in, tested in, offered for sale in, sold in, or imported into the United States by Toyota at some point in time since 2018. Each of the Accused Products supports LTE and, thus, includes the features and functionality identified in this chart. The features and functionality identified in this chart cause the Accused Products to practice the asserted claims of U.S. Patent No. 9,622,227 (the “227 patent”).

Claim 1	Accused Products
[PRE] A method of operating a user equipment (UE), the method comprising:	An Accused Product configured to operate on an LTE network is a user equipment (UE). As evidenced below, the Accused Products perform a method of operating a user equipment when operating on an LTE network.
[A][1] determining whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe,	<p>As evidenced below, an Accused Product operating on an LTE network determines whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe.</p> <div data-bbox="751 883 1839 1357" style="border: 1px solid black; padding: 10px;"> <p><u>7.2 UE procedure for reporting Channel State Information (CSI)</u></p> <p>The time and frequency resources that can be used by the UE to report CSI which consists of channel quality indicator (CQI), precoding matrix indicator (PMI), precoding type indicator (PTI), and/or rank indication (RI) are controlled by the eNB. For spatial multiplexing, as given in [3], the UE shall determine a RI corresponding to the number of useful transmission layers. For transmit diversity as given in [3], RI is equal to one.</p> <p>A UE in transmission mode 8 or 9 is configured with or without PMI/RI reporting by the higher layer parameter <i>pmi-RI-Report</i>.</p> <p>A UE is configured with resource-restricted CSI measurements if the subframe sets $C_{CSI,0}$ and $C_{CSI,1}$ are configured by higher layers.</p> <p><u>CSI reporting is periodic or aperiodic.</u></p> <p><u>If the UE is configured with more than one serving cell, it transmits CSI for activated serving cell(s) only.</u></p> <p>[...]</p> </div>

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Claim 1	Accused Products													
	<p>Source: TS 36.213,¹ p. 44</p> <div><p>7.2.2 <u>Periodic CSI Reporting using PUCCH</u></p><p><u>A UE is semi-statically configured by higher layers to periodically feed back different CSI (CQI, PMI, PTI, and/or RI) on the PUCCH using the reporting modes given in Table 7.2.2-1 and described below.</u></p><p>Table 7.2.2-1: CQI and PMI Feedback Types for PUCCH CSI reporting Modes</p><table><tr><th colspan="2" rowspan="2"></th><th colspan="2">PMI Feedback Type</th></tr><tr><th>No PMI</th><th>Single PMI</th></tr><tr><th rowspan="2">PUCCH CQI Feedback Type</th><th>Wideband (wideband CQI)</th><td>Mode 1-0</td><td>Mode 1-1</td></tr><tr><th>UE Selected (subband CQI)</th><td>Mode 2-0</td><td>Mode 2-1</td></tr></table></div> <p>Source: TS 36.213, p. 52</p>			PMI Feedback Type		No PMI	Single PMI	PUCCH CQI Feedback Type	Wideband (wideband CQI)	Mode 1-0	Mode 1-1	UE Selected (subband CQI)	Mode 2-0	Mode 2-1
				PMI Feedback Type										
		No PMI	Single PMI											
PUCCH CQI Feedback Type	Wideband (wideband CQI)	Mode 1-0	Mode 1-1											
	UE Selected (subband CQI)	Mode 2-0	Mode 2-1											

¹ 3GPP TS 36.213 V10.13.0 (2015-06) Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures (Release 10)

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Claim 1	Accused Products
	<p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p>For the UE-selected subband CQI, a CQI report in a certain subframe of a certain serving cell describes the channel quality in a particular part or in particular parts of the bandwidth of that serving cell described subsequently as bandwidth part (BP) or parts. <u>The bandwidth parts shall be indexed in the order of increasing frequency and non-increasing sizes starting at the lowest frequency.</u></p> <p><u>For each serving cell</u></p> <ul style="list-style-type: none"> • There are a total of N subbands for a serving cell system bandwidth given by N_{RB}^{DL} where $\lfloor N_{RB}^{DL} / k \rfloor$ subbands are of size k. If $\lceil N_{RB}^{DL} / k \rceil - \lfloor N_{RB}^{DL} / k \rfloor > 0$ then one of the subbands is of size $N_{RB}^{DL} - k \cdot \lfloor N_{RB}^{DL} / k \rfloor$. • A bandwidth part j is frequency-consecutive and consists of N_j subbands where J bandwidth parts span S or N_{RB}^{DL} as given in Table 7.2.2-2. If $J=1$ then N_j is $\lceil N_{RB}^{DL} / k / J \rceil$. If $J>1$ then N_j is either $\lceil N_{RB}^{DL} / k / J \rceil$ or $\lceil N_{RB}^{DL} / k / J \rceil - 1$, depending on N_{RB}^{DL}, k and J. • <u>Each bandwidth part j, where $0 \leq j \leq J-1$, is scanned in sequential order according to increasing frequency.</u> • For UE selected subband feedback a single subband out of N_j subbands of a bandwidth part is selected along with a corresponding L-bit label indexed in the order of increasing frequency, where $L = \lceil \log_2 \lceil N_{RB}^{DL} / k / J \rceil \rceil$. <p>[...]</p> <p>Source: TS 36.213, pp. 52-53</p>
[A][2] each of the plurality of CSI reports related to a respective one of a plurality of component carriers;	As evidenced below, each of the plurality of CSI reports is related to a respective one of a plurality of component carriers.

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Claim 1	Accused Products
	<p><u>7.2 UE procedure for reporting Channel State Information (CSI)</u></p> <p>The time and frequency resources that can be used by the UE to report CSI which consists of channel quality indicator (CQI), precoding matrix indicator (PMI), precoding type indicator (PTI), and/or rank indication (RI) are controlled by the eNB. For spatial multiplexing, as given in [3], the UE shall determine a RI corresponding to the number of useful transmission layers. For transmit diversity as given in [3], RI is equal to one.</p> <p>A UE in transmission mode 8 or 9 is configured with or without PMI/RI reporting by the higher layer parameter <i>pmi-RI-Report</i>.</p> <p>A UE is configured with resource-restricted CSI measurements if the subframe sets $C_{CSI,0}$ and $C_{CSI,1}$ are configured by higher layers.</p> <p>CSI reporting is periodic or aperiodic.</p> <p><u>If the UE is configured with more than one serving cell, it transmits CSI for activated serving cell(s) only.</u></p> <p>[...]</p> <p>Source: TS 36.213, p. 44</p>
<p>[B][1] on a condition that the determination is positive, dropping at least one lower priority CSI report of the plurality of CSI reports, wherein:</p>	<p>As evidenced below, an Accused Product operating on an LTE network, on a condition that the determination is positive, drops at least one lower priority CSI report of the plurality of CSI reports.</p> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p><u>For a given subframe, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported, and CSI of all other serving cells are dropped.</u></p> <p>[...]</p> <p>Source: TS 36.213, pp.52-54</p>

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Claim 1	Accused Products
<p>[B][2] a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI), and</p>	<p>As evidenced below, a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI).</p> <div data-bbox="751 342 1843 1068" style="border: 1px solid black; padding: 10px;"> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p>The following CQI/PMI and RI reporting types with distinct periods and offsets are supported for the PUCCH CSI reporting modes given in Table 7.2.2-3:</p> <ul style="list-style-type: none"> • Type 1 report supports CQI feedback for the UE selected sub-bands • Type 1a report supports subband CQI and second PMI feedback • Type 2, Type 2b, and Type 2c report supports wideband CQI and PMI feedback • Type 2a report supports wideband PMI feedback • Type 3 report supports RI feedback • Type 4 report supports wideband CQI • Type 5 report supports RI and wideband PMI feedback • Type 6 report supports RI and PTI feedback <p>[...]</p> <p>If the UE is configured with more than one serving cell, the UE transmits a CSI report of only one serving cell in any given subframe. For a given subframe, in case of collision of a CSI report with PUCCH reporting type 3, 5, 6, or 2a of one serving cell with a CSI report with PUCCH reporting type 1, 1a, 2, 2b, 2c, or 4 of another serving cell, the latter CSI with PUCCH reporting type (1, 1a, 2, 2b, 2c, or 4) has lower priority and is dropped. For a given subframe, in case of collision of CSI report with PUCCH reporting type 2, 2b, 2c, or 4 of one serving cell with CSI report with PUCCH reporting type 1 or 1a of another serving cell, the latter CSI report with PUCCH reporting type 1, or 1a has lower priority and is dropped. For a given subframe, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported, and CSI of all other serving cells are dropped.</p> </div> <p>Source: TS 36.213, pp. 52-54</p>
<p>[B][3] a CSI report containing a RI for a primary component carrier is prioritized over one or more CSI reports containing a RI for a</p>	<p>As evidenced below, a CSI report containing a RI for a primary component carrier is prioritized over one or more CSI reports containing a RI for a respective secondary component carrier.</p>

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Claim 1	Accused Products
<p>respective secondary component carrier; and</p>	<div data-bbox="756 237 1843 509"> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p>For a given subframe, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported, and CSI of all other serving cells are dropped.</p> <p>[...]</p> </div> <p>Source: TS 36.213, pp. 52-54</p> <div data-bbox="756 630 1843 919"> <p>– <i>ServCellIndex</i></p> <p>The IE <i>ServCellIndex</i> concerns a short identity, used to identify a serving cell (i.e. the PCell or an SCell). Value 0 applies for the PCell, while the <i>SCellIndex</i> that has previously been assigned applies for SCells.</p> <p><i>ServCellIndex</i> information element</p> <pre>-- ASN1START ServCellIndex-r10 ::= INTEGER (0..7) -- ASN1STOP</pre> </div> <p>Source: TS 36.331,² p. 220</p>
<p>[C] transmitting, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe.</p>	<p>As evidenced below, an Accused Product operating on an LTE network transmits, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe.</p>

² 3GPP TS 36.331 V10.22.0 (2018-06) Evolved Universal Terrestrial Radio Access (E-UTRA); Radio Resource Control (RRC); Protocol specification (Release 10)

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Claim 1	Accused Products
	<div data-bbox="756 240 1845 508" style="border: 1px solid black; padding: 10px;"> <p>7.2.2 <u>Periodic CSI Reporting using PUCCH</u></p> <p>[...]</p> <p>For a <u>given subframe</u>, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, <u>the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported</u>, and CSI of all other serving cells are dropped.</p> <p>[...]</p> </div> <p>Source: TS 36.213, pp. 52-54</p>
Claim 2	Accused Products
<p>[A] The method of claim 1, wherein each of the plurality of component carriers has an associated priority, the method further comprising:</p>	<p>As evidenced below, each of the plurality of component carriers has an associated priority.</p> <div data-bbox="749 837 1843 1138" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">– <i>ServCellIndex</i></p> <p>The IE: <i>ServCellIndex</i> concerns a short identity, used to identify a serving cell (i.e. the PCell or an SCell). Value 0 applies for the PCell, while the <i>SCellIndex</i> that has previously been assigned applies for SCells.</p> <p style="text-align: center;"><i>ServCellIndex</i> information element</p> <div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;"> <pre>-- ASN1START ServCellIndex-r10 ::= INTEGER (0..7) -- ASN1STOP</pre> </div> </div> <p>Source: TS 36.331, p. 220</p>

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Claim 2	Accused Products
	<div data-bbox="756 237 1845 509" style="border: 1px solid black; padding: 10px;"> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p>For a given subframe, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, <u>the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported</u>, and CSI of all other serving cells are dropped.</p> <p>[...]</p> </div> <p>Source: TS 36.213, pp. 52-54</p>
<p>[B][1] on a condition that there are no CSI reports for a primary component carrier, dropping at least one lower priority CSI report of the plurality of CSI reports,</p>	<p>As evidenced below, an Accused Product operating on an LTE network transmits, on a condition that there are no CSI reports for a primary component carrier, dropping at least one lower priority CSI report of the plurality of CSI reports.</p> <div data-bbox="751 810 1841 1109" style="border: 1px solid black; padding: 10px;"> <p>– <i>ServCellIndex</i></p> <p>The IE <i>ServCellIndex</i> concerns a short identity, used to identify a serving cell (i.e. the PCell or an SCell). <u>Value 0 applies for the PCell</u>, while the <i>SCellIndex</i> that has previously been assigned applies for SCells.</p> <p style="text-align: center;"><i>ServCellIndex</i> information element</p> <pre style="background-color: #f0f0f0; padding: 5px;">-- ASN1START ServCellIndex-r10 ::= INTEGER (0..7) -- ASN1STOP</pre> </div> <p>Source: TS 36.331, p. 220</p>

Claim 2	Accused Products				
	<div data-bbox="751 233 1845 459"> <p>3.2 Abbreviations</p> <p>[...]</p> <table border="1"> <tr> <td>PCell</td><td>Primary Cell</td></tr> </table> <p>[...]</p> <table> <tr> <td>SCell</td><td>Secondary Cell</td></tr> </table> </div> <p>Source: TS 36.331, pp. 17-19</p> <div data-bbox="751 573 1845 846"> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p>For a given subframe, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported, <u>and CSI of all other serving cells are dropped.</u></p> <p>[...]</p> </div> <p>Source: TS 36.213, pp. 52-54</p>	PCell	Primary Cell	SCell	Secondary Cell
PCell	Primary Cell				
SCell	Secondary Cell				
<p>[B][2] wherein a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority.</p>	<p>As evidenced below and elsewhere herein, a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority.</p> <div data-bbox="751 1143 1845 1414"> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <div data-bbox="772 1263 1829 1352"> <p>For a given subframe, in case of collision between CSI reports of different serving cells with PUCCH reporting type of the same priority, the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported, and CSI of all other serving cells are dropped.</p> </div> <p>[...]</p> </div>				

Claim 2	Accused Products
	<p>Source: TS 36.213, pp. 52-54</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;"><i>ServCellIndex</i></p> <p>The IE <i>ServCellIndex</i> concerns a short identity, used to identify a serving cell (i.e. the PCell or an SCell). Value 0 applies for the PCell, while the <i>SCellIndex</i> that has previously been assigned applies for SCells.</p> <p style="text-align: center;"><i>ServCellIndex</i> information element</p> <pre>-- ASN1START ServCellIndex-r10 ::= INTEGER (0..7) -- ASN1STOP</pre> </div> <p>Source: TS 36.331, p. 220</p>

Claim 3	Accused Products
[PRE] A user equipment (UE) comprising:	An Accused Product configured to operate on an LTE network is a user equipment (UE).
[A][1] a processor operable to determine whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe,	The Accused Products include one or more processors (e.g., processor(s) in a telematics unit, processor(s) in a data communications module) configured to implement and/or support LTE communications. As evidenced above, the one or more processors are operable to determine whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe. <i>See</i> Claim 1, [A][1].
[A][2] each of the plurality of CSI reports related to a respective one of a plurality of component carriers;	As evidenced above, each of the plurality of CSI reports is related to a respective one of a plurality of component carriers. <i>See</i> Claim 1, [A][2].

Claim 3	Accused Products
[B][1] the processor further operable to, on a condition that the determination is positive , drop at least one lower priority CSI report of the plurality of CSI reports,	As evidenced above, the one or more processors are operable to, on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 1, [B][1].
[B][2] wherein a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI) , and	As evidenced above, a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI). <i>See</i> Claim 1, [B][2].
[B][3] wherein a CSI report containing a RI for a primary component carrier is prioritized over one or more CSI reports containing a RI for a respective secondary component carrier ; and	As evidenced above, a CSI report containing a RI for a primary component carrier is prioritized over one or more CSI reports containing a RI for a respective secondary component carrier. <i>See</i> Claim 1, [B][3].
[C] a transmitter operable to transmit at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe .	The Accused Products include hardware/software configured to transmit signals when communicating using LTE (i.e., a transmitter). As evidenced above, the hardware/software configured to transmit signals when communicating using LTE is operable to transmit at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe. <i>See</i> Claim 1, [C].

Claim 4	Accused Products
[A] The UE of claim 3, wherein each of the plurality of component carriers has an associated priority ,	As evidenced above, each of the plurality of component carriers has an associated priority. <i>See</i> Claim 2, [A].

Claim 4	Accused Products
[B][1] and the processor further operable to, on a condition there are no CSI reports for a primary component carrier, dropping at least one lower priority CSI report of the plurality of CSI reports,	As evidenced above, the one or more processors are operable to, on a condition there are no CSI reports for a primary component carrier, drop at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 2, [B][1].
[B][2] wherein a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority.	As evidenced above, a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority. <i>See</i> Claim 2, [B][2].

Claim 5	Accused Products
[PRE] A non-transitory computer readable storage medium comprising executable code stored thereon that, when executed by a processor, causes a user equipment (UE) to:	Each Accused Product includes one or more processors (e.g., processor(s) in a telematics unit, processor(s) in a data communications module) configured to implement and/or support LTE communications. These processors implement instructions stored as software/code in memory included in the Accused Product (i.e., a non-transitory computer readable storage medium comprising executable code stored thereon).
[A][1] determine whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe,	As evidenced above, the instructions include software/code that when implemented cause the UE to determine whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe. <i>See</i> Claim 1, [A][1].
[A][2] each of the plurality of CSI reports related to a respective one of a plurality of component carriers;	As evidenced above, each of the plurality of CSI reports is related to a respective one of a plurality of component carriers. <i>See</i> Claim 1, [A][2].

Claim 5	Accused Products
[B][1] on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports, wherein:	As evidenced above, the instructions include software/code that when implemented cause the UE to, on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 1, [B][1].
[B][2] a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI), and	As evidenced above, a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI). <i>See</i> Claim 1, [B][2].
[B][3] a CSI report containing a RI for a primary component carrier is prioritized over one or more CSI reports containing a RI for a respective secondary component carrier; and	As evidenced above, a CSI report containing a RI for a primary component carrier is prioritized over one or more CSI reports containing a RI for a respective secondary component carrier. <i>See</i> Claim 1, [B][3].
[C] transmit, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe.	As evidenced above, the instructions include software/code that when implemented cause the UE to transmit, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe. <i>See</i> Claim 1, [C].

Claim 6	Accused Products
[A] The non-transitory computer readable storage medium of claim 5, wherein each of the plurality of component carriers has an associated priority,	As evidenced above, each of the plurality of component carriers has an associated priority. <i>See</i> Claim 2, [A].

Claim 6	Accused Products
[B][1] and the executable code, when executed by the processor, further causes the UE to, on a condition there are no CSI reports for a primary component carrier, drop at least one lower priority CSI report of the plurality of CSI reports,	As evidenced above, the instructions include software/code that when implemented cause the UE to, on a condition there are no CSI reports for a primary component carrier, drop at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 2, [B][1]
[B][2] wherein a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority.	As evidenced above, a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority. <i>See</i> Claim 2, [B][2].

Claim 7	Accused Products
[PRE] A method of operating a user equipment (UE), the method comprising:	An Accused Product configured to operate on an LTE network is a user equipment (UE). As evidenced below, the Accused Products perform a method of operating a user equipment when operating on an LTE network.
[A][1] determining whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe,	As evidenced above, an Accused Product operating on an LTE network determines whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe. <i>See</i> Claim 1, [A][1].
[A][2] each of the plurality of CSI reports related to a respective one of a plurality of component carriers and each of the plurality of component	As evidenced below, each of the plurality of CSI reports is related to a respective one of a plurality of component carriers and each of the plurality of component carriers has an associated priority.

Claim 7	Accused Products
carriers having an associated priority;	<div data-bbox="756 240 1843 703" style="border: 1px solid black; padding: 10px;"> <p><u>7.2 UE procedure for reporting Channel State Information (CSI)</u></p> <p>The time and frequency resources that can be used by the UE to report CSI which consists of channel quality indicator (CQI), precoding matrix indicator (PMI), precoding type indicator (PTI), and/or rank indication (RI) are controlled by the eNB. For spatial multiplexing, as given in [3], the UE shall determine a RI corresponding to the number of useful transmission layers. For transmit diversity as given in [3], RI is equal to one.</p> <p>A UE in transmission mode 8 or 9 is configured with or without PMI/RI reporting by the higher layer parameter <i>pmi-RI-Report</i>.</p> <p>A UE is configured with resource-restricted CSI measurements if the subframe sets $C_{CSI,0}$ and $C_{CSI,1}$ are configured by higher layers.</p> <p>CSI reporting is periodic or aperiodic.</p> <p><u>If the UE is configured with more than one serving cell, it transmits CSI for activated serving cell(s) only.</u></p> <p>[...]</p> </div> <p>Source: TS 36.213, p. 44</p> <div data-bbox="756 824 1843 1122" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;"><u>ServCellIndex</u></p> <p>The IE <i>ServCellIndex</i> concerns a short identity, used to identify a serving cell (i.e. the PCell or an SCell). Value 0 applies for the PCell, while the <i>SCellIndex</i> that has previously been assigned applies for SCells.</p> <p style="text-align: center;">ServCellIndex information element</p> <div style="background-color: #f0f0f0; padding: 5px;"> <pre>-- ASN1START ServCellIndex-r10 ::= INTEGER (0..7) -- ASN1STOP</pre> </div> </div> <p>Source: TS 36.331, p. 220</p>
[B][1] on a condition that the determination is positive, dropping at least one lower priority CSI report	As evidenced above, an Accused Product operating on an LTE network, on a condition that the determination is positive, drops at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 1, [B][1].

Claim 7	Accused Products
of the plurality of CSI reports, wherein:	
[B][2] a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI), and	As evidenced above, a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI). <i>See</i> Claim 1, [B][2].
[B][3] a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority; and	<p>As evidenced below, a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority.</p> <div data-bbox="751 638 1837 909" style="border: 1px solid black; padding: 10px;"> <p>7.2.2 Periodic CSI Reporting using PUCCH</p> <p>[...]</p> <p>For a given subframe, in case of collision between CSI reports of different serving cells with <u>PUCCH reporting type of the same priority</u>, <u>the CSI of the serving cell with lowest <i>ServCellIndex</i> is reported</u>, and <u>CSI of all other serving cells are dropped</u>.</p> <p>[...]</p> </div> <p>Source: TS 36.213, pp. 52-54</p> <div data-bbox="751 1024 1837 1312" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;"><i>ServCellIndex</i></p> <p>The IE <i>ServCellIndex</i> concerns a short identity, used to identify a serving cell (i.e. the PCell or an SCell). Value 0 applies for the PCell, while the <i>SCellIndex</i> that has previously been assigned applies for SCells.</p> <p style="text-align: center;"><i>ServCellIndex</i> information element</p> <pre> -- ASN1START ServCellIndex-r10 ::= INTEGER (0..7) -- ASN1STOP </pre> </div> <p>Source: TS 36.331, p. 220</p>

Claim 7	Accused Products
[C] transmitting, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe.	As evidenced above, an Accused Product operating on an LTE network transmits, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe. <i>See</i> Claim 1, [C].

Claim 8	Accused Products
[PRE] A user equipment (UE) comprising:	An Accused Product configured to operate on an LTE network is a user equipment (UE).
[A][1] a processor operable to determine whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe,	The Accused Products include one or more processors (e.g., processor(s) in a telematics unit, processor(s) in a data communications module) configured to implement and/or support LTE communications. As evidenced above, the one or more processors are operable to determine whether at least two of a plurality of channel state information (CSI) reports are to be transmitted on a physical uplink control channel (PUCCH) in a subframe. <i>See</i> Claim 1, [A][1].
[A][2] each of the plurality of CSI reports related to a respective one of a plurality of component carriers and each of the plurality of component carriers having an associated priority;	As evidenced above, each of the plurality of CSI reports is related to a respective one of a plurality of component carriers and each of the plurality of component carriers has an associated priority. <i>See</i> Claim 7, [A][2].
[B][1] the processor further operable to, on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports, wherein:	As evidenced above, the one or more processors are operable to, on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 1, [B][1].

Claim 8	Accused Products
[B][2] a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI), and	As evidenced above, a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI). <i>See</i> Claim 1, [B][2].
[B][3] a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of a lower associated priority; and	As evidenced above, a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority. <i>See</i> Claim 7, [B][3].
[C] a transmitter operable to transmit at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe.	The Accused Products include hardware/software configured to transmit signals when communicating using LTE (i.e., a transmitter). As evidenced above, the hardware/software configured to transmit signals when communicating using LTE is operable to transmit at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe. <i>See</i> Claim 1, [C].

Claim 9	Accused Products
[PRE] A non-transitory computer readable storage medium comprising executable code stored thereon that, when executed by a processor, causes a user equipment (UE) to:	Each Accused Product includes one or more processors (e.g., processor(s) in a telematics unit, processor(s) in a data communications module) configured to implement and/or support LTE communications. These processors implement instructions stored as software/code in memory included in the Accused Product (i.e., a non-transitory computer readable storage medium comprising executable code stored thereon).
[A][1] determine whether at least two of a plurality of channel state information (CSI) reports are to be	As evidenced above, the instructions include software/code that when implemented cause the UE to determine whether at least two of a plurality of channel state information (CSI) reports

Claim 9	Accused Products
transmitted on a physical uplink control channel (PUCCH) in a subframe,	are to be transmitted on a physical uplink control channel (PUCCH) in a subframe. <i>See</i> Claim 1, [A][1].
[A][2] each of the plurality of CSI reports related to a respective one of a plurality of component carriers and each of the plurality of component carriers having an associated priority;	As evidenced above, each of the plurality of CSI reports related to a respective one of a plurality of component carriers and each of the plurality of component carriers having an associated priority and each of the plurality of component carriers has an associated priority. <i>See</i> Claim 7, [A][2].
[B][1] on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports, wherein:	As evidenced above, the instructions include software/code that when implemented cause the UE to, on a condition that the determination is positive, drop at least one lower priority CSI report of the plurality of CSI reports. <i>See</i> Claim 1, [B][1].
[B][2] a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI), and	As evidenced above, a CSI report containing a Rank Indicator (RI) is prioritized over one or more CSI reports containing a Channel Quality Indicator (CQI). <i>See</i> Claim 1, [B][2].
[B][3] a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority; and	As evidenced above, a CSI report containing a RI for a component carrier with a highest associated priority is prioritized over one or more CSI reports containing a RI for a respective component carrier of lower associated priority. <i>See</i> Claim 7, [B][3].
[C] transmit, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe.	As evidenced above, the instructions include software/code that when implemented cause the UE to transmit, subsequent to the dropping, at least one prioritized CSI report of the plurality of CSI reports on the PUCCH in the subframe. <i>See</i> Claim 1, [C].

Exhibit D – U.S. Patent No. 9,622,227